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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/CTR/W.No.17/2022-23 Date: 25.05.2022

TEST REPORT ON CEMENT

Client **Assistant Executive Engineer** , Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency **Sri C T Raju,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID: : Cement (Ultratech 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : April - 2022

Date of Testing 23.05.2022 to 25.05.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	375 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23 Date 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client **Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Date of Testing 25.05.2022
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	116	11.60	20.00	80.0	75-100
1.18	174	17.40	37.40	62.6	55-90
600 Micron	244	24.40	61.80	38.2	35-59
300 Micron	166	16.60	78.40	21.6	8-30
150 Micron	149	14.90	93.30	6.7	0-10

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date 25.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Date of Testing : 25.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	188	1.25	1.25	98.75	95-100
20	8365	55.77	57.02	42.98	30-70
10	3111	20.74	77.76	22.24	10-35
4.75	2658	17.72	95.48	4.52	0-5

Note:

1. The Material is Satisfied as per the Requirements.

AEE-YPR

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23 Date 25.05.2022

TEST REPORT ON COARSE AGGREGATES

Client **Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency **Sri C T Raju,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Date of Testing 25.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	199	4.0	4.0	96.0	95-100
10	2748	55.0	58.9	41.1	25-55
4.75	1566	31.3	90.3	9.7	0-10

Note:

1. The Material is Satisfied as per the Requirements.

AEE-YPR

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client

Agency **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.
Sri C T Raju, Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Date of Testing 25.05.2022

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	22	2.20	2.20	97.8	95-100
2.36	23	2.30	4.50	95.5	95-100
1.18	37	3.70	8.20	91.8	90-100
600 Micron	86	8.60	16.80	83.2	80-100
300 Micron	246	24.60	41.40	58.6	20-65
150 Micron	477	47.70	89.10	10:9	0-15

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client Agency : **Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Name of Work : **Sri C T Raju,** Contractor, Bangalore.

: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Date of Testing 25.05.2022

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	17	1.70	3.50	96.5	70-100
600 Micron	73	7.30	10.80	89.2	40-100
300 Micron	256	25.60	36.40	63.6	5-70
150 Micron	498	49.80	86.20	13.8	0-15

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date 25.05.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client Agency : **Assistant Executive Engineer** , Yeshwanthpura Sub Division, BBMP, Bangalore

Name of Work : **Sri C T Raju,** Contractor, Bangalore.

: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Steel Dia/Length : 8mm,10mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 25.05.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	516	604	1.17	14.5
2	TMT	10	0.618	522	619	1.19	16
3	TMT	12	0.889	534	622	1.16	18

Note:

1. The Material is Satisfied as per the Requirements.

AEE-YPR
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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date: 28.05.2022

TEST REPORT ON CPVC PIPE

Client	**Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of Work	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.
Sample Supplied by:	:AGENCY
BIS Code:	IS 13360(Part3/Sec 1):1995 IS 15778:2007
Sample Identification:	CPVC pipe 20mm dia
Date of Testing	28.05.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.3	Min 22 mm Max 22.4 mm
4	Density	1467 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

Note:

1. The Material is Satisfied as per the Requirements.

For SAPIENCE CONSULTANTS

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AEE-YRR

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/CTR/W.No.17/2022-23 28.05.2022

TEST REPORT ON CPVC PIPE

Client	**Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, I
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of Work	: Compreshensive development of roads, drains and footpath in HMT La SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2 RRN-DIV-(10), BBMP, Bengalore.
Sample Supplied by:	:AGENCY
BIS Code:	IS 13360(Part3/Sec 1):1995 IS 15778:2007
Sample Identification:	CPVC pipe 50mm dia
Date of Testing	28.05.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	53.8	Min 53.7 mm Max 54.3 mm
4	Density	1575 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	06.06.2022	8.034	373.4	16.60
2	30.05.2022	06.06.2022	8.142	384.6	17.09
3	30.05.2022	06.06.2022	8.075	397.5	17.67

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 06.06.2022

Client : **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2.

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	06.06.2022	8.041	374.8	16.66
2	30.05.2022	06.06.2022	8.109	388.7	17.28
3	30.05.2022	06.06.2022	8.137	397.6	17.67

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 06.06.2022

Client : **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri C T Raju**, Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	06.06.2022	8.164	375.6	16.69
2	30.05.2022	06.06.2022	8.107	387.8	17.24
3	30.05.2022	06.06.2022	8.011	396.7	17.63

Note:

1. The Material is Satisfied as per the Requirements.

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/CTR/W.No.17/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 27.06.2022

Client : **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	27.06.2022	8.100	509.9	22.66
2	30.05.2022	27.06.2022	8.188	518.4	23.04
3	30.05.2022	27.06.2022	8.088	528.6	23.49

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Date: 27.06.2022

Agency **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.

Name of the work **Sri C T Raju**, Contractor, Bangalore.
: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	27.06.2022	8.123	511.3	22.72
2	30.05.2022	27.06.2022	8.085	519.8	23.10
3	30.05.2022	27.06.2022	8.009	526.4	23.40

Note:

1. The Material is Satisfied as per the Requirements.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For SAPIENCE CONSULTANTS

Authorised Signatory

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date: 27.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer**, Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	27.06.2022	8.011	517.8	23.01
2	30.05.2022	27.06.2022	8.033	528.6	23.49
3	30.05.2022	27.06.2022	8.055	537.4	23.88

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: SCE/BBMP/CTR/W.No.17/2022-23

Date: 24.05.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer ,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri C T Raju,** Contractor, Bangalore.
Name of Work	:	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bengalore.
No.of Sample Tested	:	03
Date of Testing	:	24.05.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	112.00	1.651	2317.15	1.24	0.960	108.20	17.01	18.37	17.63	22.04
2	90.00	116.00	1.723	2334.81	1.29	0.960	111.50	17.53	18.93	18.17	22.71
3	90.00	120.00	1.832	2399.77	1.33	0.965	113.20	17.79	19.22	18.54	23.18

Note:

1. The Material is Satisfied as per the Requirements.

For SAPIENCE CONSULTANTS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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